



# The Medical and Diagnostic Care Group

## Carbon Reporting and Reduction Plan

Baseline year June 21 to May 22.

Current reporting year June 22 to May 23.

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## **1. Introduction**

The Medical and Diagnostic Group Ltd has committed to reducing its carbon emission to Net Zero by 2035, using as far as possible direct reduction, and offsetting the remainder.

We do this because we are conscious of the environmental, social and economic imperative to act on climate change.

The UK Government amended the Climate Change Act 2008 in 2019 by introducing a target of at least 100% reduction in the net UK carbon account (i.e. a reduction of greenhouse gas emissions when compared to 1990 levels) by 2050. As a result, Central Government Departments, their Executive Agencies and Non-Departmental Public Bodies are required to ensure that suppliers to contracts with an annual value of in excess of £5 million (excluding VAT) per year are committed to achieving “Net Zero by 2050” for all procurements after 30<sup>th</sup> September 2021.

This has led to PPN 06/21 which applies to all new procurements from this date and this includes framework call-offs and Dynamic Purchasing Systems where the anticipated individual value of the call-off or DPS is £5 million (excluding VAT) per annum or more. To demonstrate compliance, we have set out our environmental management measures in our Carbon Reduction Plan which includes:

- Confirming our commitment to achieving Net Zero by 2050 for our UK operations.
- Details of our carbon footprint/current emissions for the sources included in Scope 1 and 2 of the GHG Protocol and a defined subset of Scope 3 emissions.
- Providing emissions reporting of the CO<sub>2</sub>e (Carbon Dioxide Equivalent) for the greenhouse gases covered by the Kyoto Protocol (predominantly carbon dioxide, methane and nitrous oxide).
- Setting out the environmental management measures we have adopted including specific carbon reduction measures.
- Publication of our Carbon Reduction Plan on our website.

## **2. Scope 1, 2 and 3 Emissions Definitions**

**Scope 1 Direct Emissions** – these are direct greenhouse gas emissions that occur from sources that are controlled or owned by us (e.g. emissions from boilers, vehicles etc).

**Scope 2 Energy Indirect Emissions** – these are indirect greenhouse gas emissions associated from the purchase of electricity, heating or cooling and are measured and reported in alignment with our energy use.

**Scope 3 Other Indirect Emissions** – these fall into 15 categories and include all sources not specified within Scopes 1 and 2 above. The Scope 3 emissions that we are required to report on are:

- **“Upstream” transportation and distribution** of products purchased by us from Tier 1 suppliers (e.g. paper, computers, office consumables).
- **Disposal and treatment of waste** generated in facilities not owned or controlled by us.
- **Transportation of employees for business related activities** in vehicles not owned or operated by us.
- **Transportation of employees between home and work** in vehicles not owned or operated by us including in their own vehicles.
- **“Downstream” transportation and distribution** of products sold by us including retail and storage. This category is not applicable as The Medical and Diagnostic Group is a service business and does not produce, transport or distribute products.

### **3. Carbon impact for the baseline year June 2021 to May 2022**

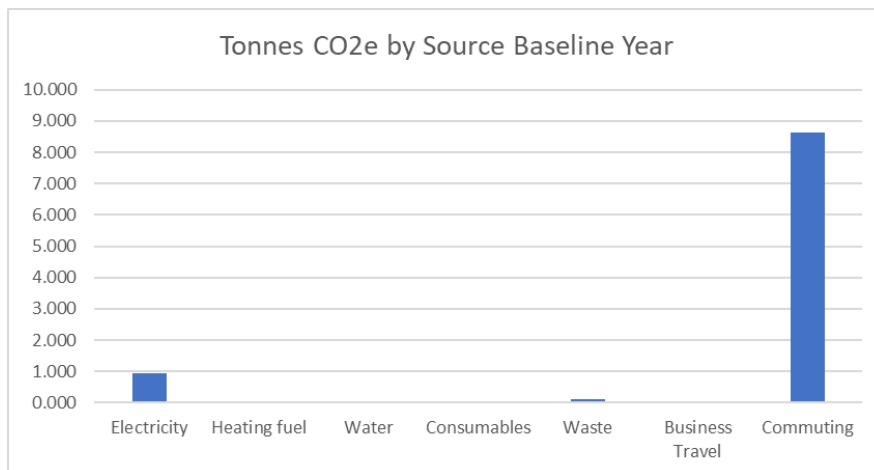
The tables below show our carbon footprint in our baseline year **June 21 to May 22** when we first started measuring our emissions.

Baseline Year:	June 21 – May 22
Baseline Emissions Calculations:	All Scopes – tonnes CO <sub>2</sub> e/ year
Scope 1 CO <sub>2</sub> e:	0.000
Scope 2 CO <sub>2</sub> e:	0.943

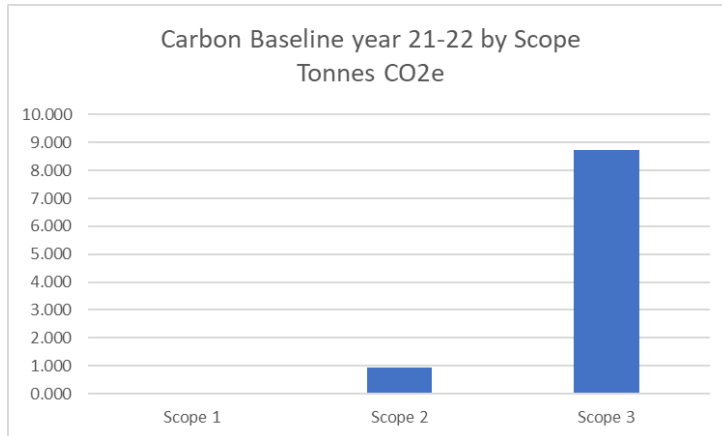
Scope 3 CO <sub>2</sub> e (included sources):	8.745
<b>Total Emissions:</b>	9.688

### 3.1 Carbon emissions by source.

	Tonnes CO2e
Electricity	0.943
Heating fuel	n/a
Water	0.000
Consumables	0.007
Waste	0.115
Business Travel	0.000
Commuting	8.622
<b>Total</b>	<b>9.688</b>



### 3.2 Carbon Emissions by Scope



#### 4. Carbon impact for the current reporting year June 2022– May 2023

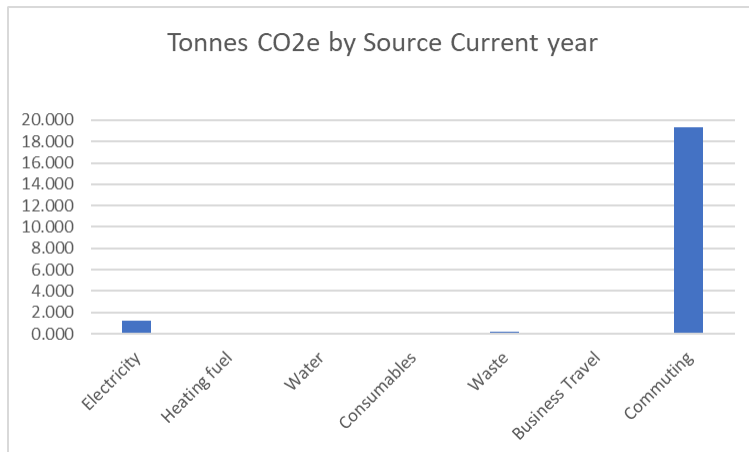
The tables below show our carbon footprint in our current reporting year June 2022 to May 2023 .

Current Year:	June 22 – May 22
Baseline Emissions Calculations:	All Scopes – tonnes CO2e/ year
Scope 1 CO2e:	0.000
Scope 2 CO2e:	1.244
Scope 3 CO2e (included sources):	19.492
<b>Total Emissions:</b>	<b>20.736</b>

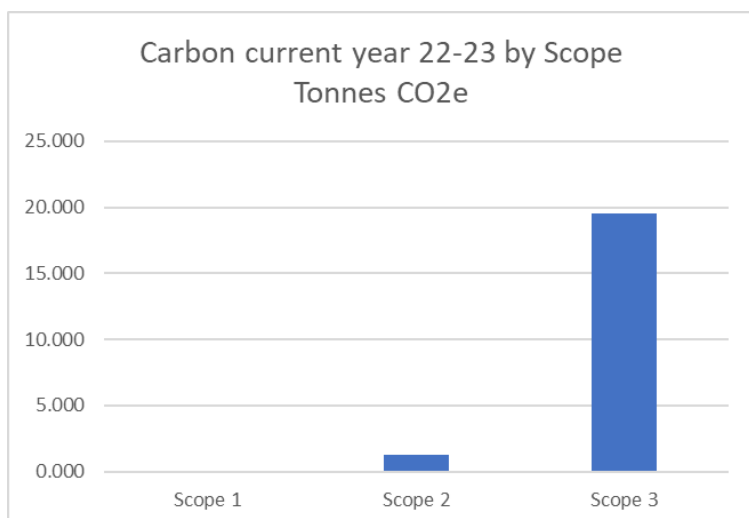
##### 4.1 Carbon emissions by source.

	Tonnes CO2e
Electricity	1.244
Heating fuel	n/a
Water	0.000
Consumables	0.019
Waste	0.152
Business Travel	0.000
Commuting	19.321

<b>Total</b>	<b>20.736</b>
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## 4.2 Carbon Emissions by Scope



## 5. Comparison of current year against baseline

	Total emissions T CO2e	Carbon intensity T CO2e per employee
<b>Baseline year</b>	9.688	0.969
<b>Current year</b>	20.736	1.481

### 5.1 Analysis



There has been a small increase in emissions from electricity use, but the largest increase is on emissions from commuting. The staff headcount has increased by four which will account for some of that, however, our carbon intensity – tonnes CO2 per employee has increased.

## 6. Carbon Assessment Observations

The Medical and Diagnostic Group operates from one office in Chelmsford Essex. The following observations were made by an external assessor on 8<sup>th</sup> August 2023.

- The business is located a modern building, rated B in its EPC.
- Many staff live quite close to the premises, distances which are within the reasonable realms of cycling.

## 7. Carbon Reduction Commitments /Actions

The Medical and Diagnostic Group is committed to achieving Net Zero by 2035 and as part of this commitment, has an interim targets of reducing emissions by 2025. This plan is reviewed annually by the Directors to check progress and establish if changes should be made to the actions we have in place to maximise our reduction in carbon emissions.

The basis of our Carbon strategy is one of **Measure – Prioritise – Act – Measure – Repeat**.

## 8. Measurement

We report on the sources of environmental impact over which we have operational control and calculate our carbon footprint monthly, in accordance with the Greenhouse Gas (GHG) Protocols Corporate Standard and report against the Kyoto Protocol greenhouse gasses in terms of:

- Actual targets – absolute reduction targets which compare actual figures in the target year to those in the base year.
- Intensity targets – based on a normalising factor.

We subscribe to a third party service to manage our data inputs, conduct the required calculations, set and record our intensity metrics, and provide monthly carbon reporting. The data that sits behind this is the UK Government Greenhouse Gas reporting database, updated when appropriate.

This provides us with our emissions by source, and total emissions by month, sets our intensity metrics and shows how we are tracking month-on-month.

Our chosen intensity metrics are kg/CO<sub>2</sub> per employee.

For the current year therefore, our **Carbon Intensity** is:

		Intensity tonne CO2 net
Employees	14	<b>1.481 t / employee</b>

Our base year for all measurements is June 21 to May 22. This will not change unless there is a significant change to our company structure (e.g. a merger or acquisition) or a change in the company's ownership, in which case the base year may move to the reporting year following the structural change.

Specific inputs and output used to calculate figures quoted in our Carbon Reduction Plan include:

- Electricity
- Water
- Solid waste
- Employee commuter mileage by type – walk / cycle / motorcycle / car / bus / train
- Business travel by private car / bus / rail
- Office consumables

## Conversion Factors

The conversion factors used throughout are the '2022 UK Government Greenhouse Gas Conversion Factors for Company Reporting.

## 9. Prioritise

Our monthly carbon calculation has enabled us to identify the largest sources of GHG emissions, and to focus our areas of impact. That does not imply however that we are not implementing actions across the board. We have been able to

identify quick and easy wins which relate to relatively low impact areas whilst also implementing longer term multi-facet strategies for the larger emission areas.

## 10. Action Plan

### 9.1 Communication

We have successfully communicated our Net Zero ambitions across our workforce, and have formed an employee task force. This task force is charged with identifying where our staff can affect carbon reductions through behaviour change.

We will report our carbon emissions and progress against target to our employees monthly, via a display at both our offices.

We have developed a communication plan which describes our ambitions and commitments to our key customers and suppliers, and in our general communications.

### 9.2 Electricity

Electricity whilst not one of our highest sources of carbon emissions, it is a significant operating cost and does have a carbon emissions associated with it.

1. **Renewable Electricity Purchase** – we will lobby our landlord to source our electricity from a 100% renewable energy source.
2. **Lighting use** – we will conduct an ongoing campaign to encourage users to turn off lights when not required or rooms are not in use. Otherwise, install further proximity controls or timers to lighting.
3. **Lighting type** – Make it policy to only replace failed units with the lowest energy types available, currently LED.
4. **IT equipment** – make it policy that all IT equipment is turned off (not stand-by) when not in use – lunchbreaks, meetings and out of hours. Otherwise, configure the technology to do this automatically.

5. Heating controls – we will ensure that the buildings heating controls are optimised so as not to overheat or heat when unoccupied. We will ensure that key staff are proficient in the use of heating controls.

### 9.3 Water

1. Emissions from incoming water and disposal are minimal. Nevertheless, it is a business cost which can be reduced through a behaviour change programme to minimise wastage, and where applicable, through technology i.e. using low flush toilet cisterns if not already in use.

### 9.4 Waste

1. This is another low impact area, which will arise primarily from waste paper and card. A behaviour change programme to reuse paper, print on both sides, only print when necessary will not only reduce the waste disposal emission, but the external emission associated with paper production and printing.

### 9.5 Office Consumables.

We have considered paper and printer cartridges here as the primary measurable consumables for the type of activity conducted at The Medical and Diagnostic Group.

1. Use only **recycled paper**, and ask employees to only print when absolutely necessary, to print on two sides.
2. **Ink cartridges** have a surprisingly high carbon footprint. Their impact can be minimised by ensuring that empty cartridges are returned to a specialist **recycler**, rather than disposed into general waste, and that trials be run to assess whether third party **second use** cartridges may be suitable. Note that their performance and compatibility can be patchy, but that the market is well served.

## 9.6 Commuting

How employees travel to work is Scope 3 emission, meaning that it is outside the direct control of the business. Scope 3 emission reporting is mandatory under the new Government Agency procurement requirements.

For The Medical and Diagnostic Group, commuting represents our greatest carbon impact.

1. Implement a **Cycle-to-Work scheme**. This is a tax incentive for employees to purchase new bicycles for commuting purposes. The cycles are bought and owned by the business, and their cost is offset against the employees Gross pay. Safety equipment, luggage carriers and wet weather clothing can also be included.

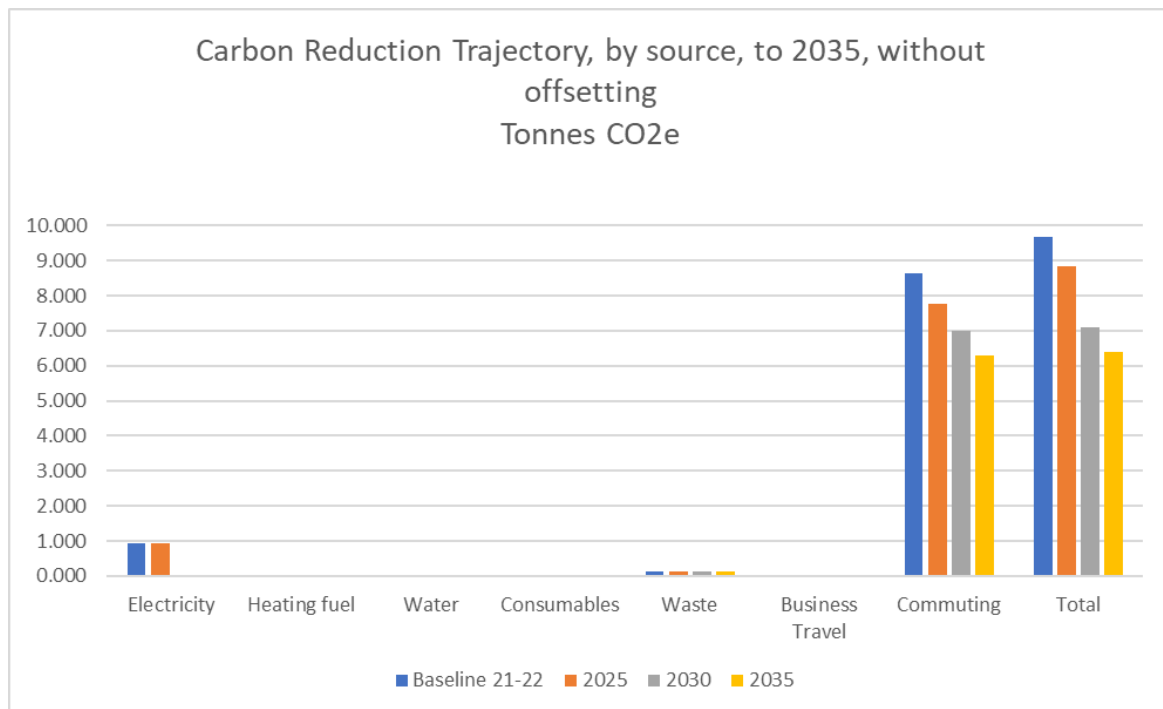
Commuting by bike is perfectly safe, and easily achievable for journeys up to ten miles. The company will need to consider the provision of safe and secure cycle storage, and maybe the provision of showers and changing facilities.

Active travel (walking, cycling) has proven health benefits which translate into a more productive workforce, with less absenteeism and better physical and mental health.

## 11. Carbon Reduction Trajectory

We have set emission reduction target by source as percentage reductions against the baseline year for 2025 and 2030 as interims, and 2035 as achieving Net Zero (with offsetting in place).

	Baseline 21-22	2025	2030	2035
Electricity	0.943	0.943	0.000	0
Heating fuel	n/a	n/a	n/a	n/a
Water	0.000	0.000	0.000	0.000
Consumables	0.007	0.007	0.007	0.007
Waste	0.115	0.110	0.104	0.099
Business Travel	0.000	0.000	0.000	0.000
Commuting	8.622	7.760	6.984	6.285
<b>Total</b>	<b>9.688</b>	<b>8.820</b>	<b>7.095</b>	<b>6.392</b>



By 2025, we will:

- made a 10% reduction in emissions from staff commuting.
- Reduced waste generation by 5%

**By 2030, we will:**

- Worked with our landlord to eliminate emissions from electricity by switching to a 100% renewables tariff.
- Reduced waste generation by a further 5%

**By 2035, we will:**

- made a further 10% reduction in emissions from staff commuting.
- Reduced waste generation by a further 5%

Therefore, by 2035, according to this trajectory, we have made carbon reductions of 34% , with the remaining Carbon footprint to offset of **6.392 t / year** to achieve Net Zero Carbon.



## **12. Audit**

Whilst not compulsory, we have committed to an annual audit of our carbon data reporting, by an independent third party.

## **13. Offsetting**

Offsetting the emissions that we can't mitigate will become part of our strategy, but only at the point that we've implemented all of the possible behavioural, process and technology changes.

Carbon offsetting is an unregulated market, and has suffered some negative publicity due to exaggerated claims on carbon savings. We also note that the UK market has little capacity at present.

We will take expert guidance to identify a credible and verifiable carbon offsetting scheme, that may be UK or Overseas based.

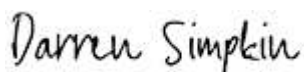
## 14. Declaration

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans, the GHG Reporting Protocol Corporate Standard and we use the appropriate Government emission conversion factors for greenhouse gas company reporting.

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard.

We confirm this Carbon Reduction Plan is reviewed and signed off at board level on an annual basis and is available on the home page of our website.



Signature:

**Name:** Darren Simpkin

**Job Title/Designation (must be a director or equivalent):** Sales Director

**Date:** 10<sup>th</sup> August 2023